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FEDERAL - STATE - PRIVATE  
COOPERATIVE SNOW SURVEYS



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CURRENT SERIAL RECORDS

# WATER SUPPLY OUTLOOK FOR OREGON

Prepared by

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

OREGON STATE UNIVERSITY

and

STATE ENGINEER of OREGON

Data included in this report were obtained by the agencies named above  
in cooperation with other Federal, State and private organizations.

AS OF  
MAY 1, 1972

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters of key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO NUMBER ORC 221-3

## PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

## PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



# **WATER SUPPLY OUTLOOK FOR OREGON**

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

*Issued*

MAY 8, 1972

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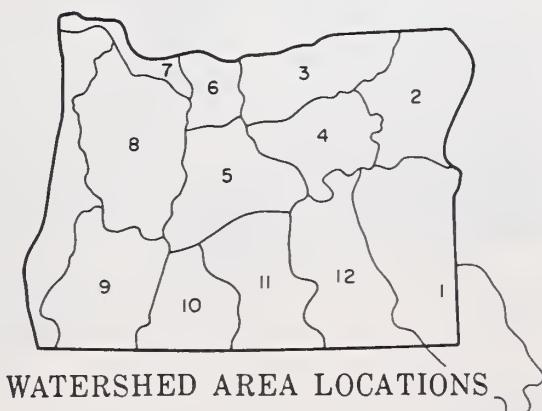


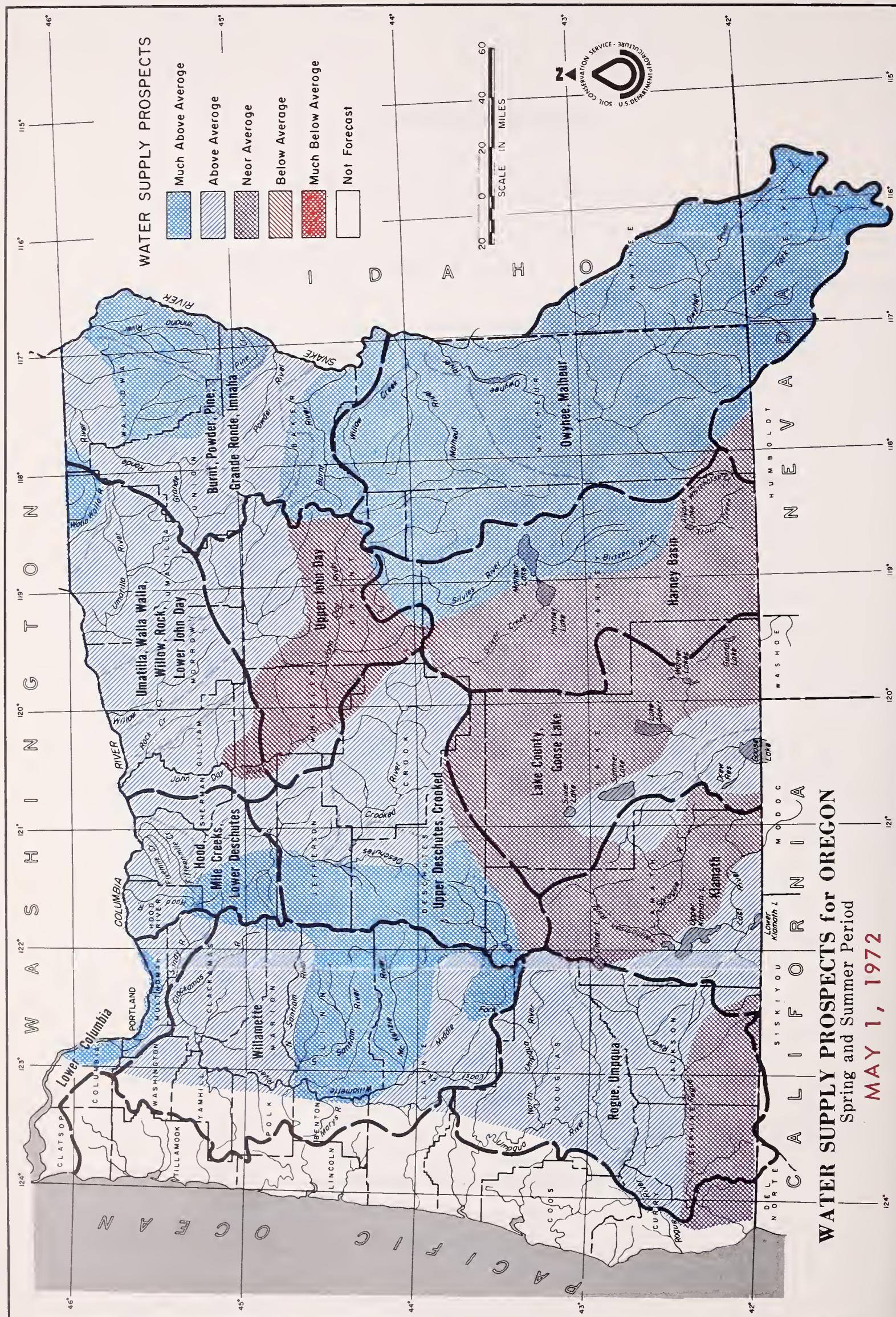
## TABLE OF CONTENTS

	PAGE
WATER SUPPLY PROSPECTS FOR OREGON.....(MAP).....	FACING PAGE 1
WATER SUPPLY OUTLOOK FOR OREGON.....	1
DETAILED WATER SUPPLY OUTLOOK BY MAJOR WATERSHED AREAS	
OWYHEE, MALHEUR.....	AREA 1
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA.....	AREA 2
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY.....	AREA 3
UPPER JOHN DAY.....	AREA 4
UPPER DESCHUTES, CROOKED.....	AREA 5
HOOD, MILE CREEKS, LOWER DESCHUTES.....	AREA 6
LOWER COLUMBIA.....	AREA 7
WILLAMETTE.....	AREA 8
ROGUE, UMPQUA.....	AREA 9
KLAMATH.....	AREA 10
LAKE COUNTY, GOOSE LAKE.....	AREA 11
HARNEY BASIN.....	AREA 12
BASIC DATA SUPPLEMENTS	
I	SNOW
II	SOIL MOISTURE
III	PRECIPITATION

MAP AND INDEX OF OREGON SNOW COURSES.....(MAP)

**LIST OF COOPERATORS.....INSIDE BACK COVER**





# WATER SUPPLY OUTLOOK for OREGON

MAY 1, 1972

The water supply outlook for Oregon remains mostly excellent. The mountain snowpack is well above normal for May 1. Most major irrigation reservoirs are full or nearly full and the forecasted summer streamflow throughout the state is mostly average to much above average.

## SNOW COVER

The mountain snowpack is generally 150 to 200% of average. Most of the snow is at the higher elevations, along the crest of the Cascades and above 4800' in eastern Oregon. Record measurements were recorded at thirteen snow courses. Cold temperatures delayed snowmelt during April and contributed to the heavy snowpack measured May 1.

## PRECIPITATION

Precipitation for the past winter period, November through April, has been near average in Lake County and the Hood River area--above average elsewhere. Rainfall during April was heaviest in western Oregon, nearly 1 and 1/2 times normal. It was mostly below normal in eastern Oregon.

## RESERVOIR STORAGE

Twenty-three major irrigation reservoirs are storing 2,932,000 acre feet of water. This is 123% of what is normally stored on May 1 and 96% of usable capacity.

## STREAMFLOW

Streamflow this past month was above average in western Oregon. It was generally below average in eastern Oregon due to the cool temperatures, except for the Owyhee which was 135% of normal. Streamflow which normally occurs during April and did not materialize because of

continued on next page

continued--

the effect of the cool weather on the snowpack can now be expected during the next several months.

Streams should produce above average amounts as shown by the following forecasts:

<u>STREAM</u>	<u>% of 1953-67 Average MAY-SEPT.</u>
Owyhee net Inflow	130
Malheur near Drewsey	156
Grande Ronde at La Grande	114
Umatilla at Pendleton	113
Mid. Fk. Willamette below N. Fk. nr. Oakridge	134
Klamath Lake net Inflow	100
Rogue at Raygold	108

This report contains data furnished by the Oregon State Engineer, U.S. Geological Survey, NOAA National Weather Service, and other cooperators.



# WATER SUPPLY OUTLOOK OWYHEE, MALHEUR WATERSHEDS OREGON

*as of*

MAY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

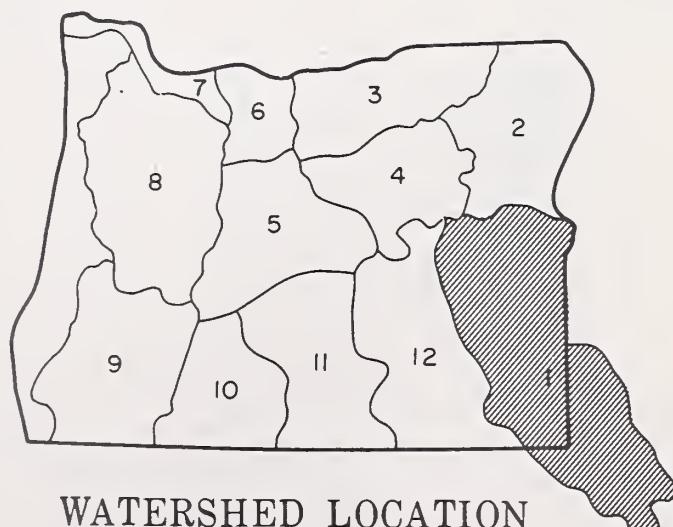
## GENERAL OUTLOOK

WATER USERS IN MALHEUR COUNTY WILL HAVE MOSTLY EXCELLENT WATER SUPPLIES DURING THE 1972 SEASON. THE MOUNTAIN SNOWPACK REMAINS FROM 2 TO 3 TIMES NORMAL DUE TO THE LOW TEMPERATURES THAT PREVAILED DURING APRIL. APRIL PRECIPITATION WAS 57 PERCENT OF AVERAGE. RESERVOIR STORAGE REMAINS EXCELLENT. THE Owyhee inflow was 134 percent of average during April. THE SOIL MOISTURE SUPPLY IS EXCELLENT AND WILL ENHANCE SPRING RUNOFF.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Boulder Creek	Excellent	Average
Bully Creek	Average	Average
Cow Creek	Excellent	Average
Jordan Creek	Excellent	Average
Jordan Valley Irrig. Dist.	Excellent	Average
McDermitt Creek	Average	Average
Oregon Canyon Creek	Average	Average
Owyhee Project	Excellent	Excellent
Succor Creek	Excellent	Average
Tenmile Creek	Average	Fair
Vale-Oregon Irrig. Dist.	Excellent	Excellent
Warmsprings Irrig. Dist.	Excellent	Excellent
Willow Creek (Reservoired)	Excellent	Excellent



WATERSHED LOCATION

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## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average i
Bully Creek at Warmsprings	15.6	137	March-May		11.4
Jordan Creek above Lone Tree Creek	66	138	May-July		48
Malheur near Drewsey	52	158	May-July	59	33
	53	156	May-Sept.	61	34
Malheur, North Fork at Beulah d	45	136	May-July		33
	50	132	May-Sept.		38
Owyhee Reservoir net Inflow k	210	131	May-July	251	160
	232	130	May-Sept.	277	179

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Owyhee near Rome	1000	May 31	May 24
	250	June 24	June 20

## RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average i
Antelope	70.0	54.3	- -	30.7
Beulah Res.	60.0	56.5	59.9	50.1
Bully Creek	30.0	26.4	29.8	20.6
Owyhee	715.0	708.5	698.2	531.9
Warmsprings	191.0	180.2	179.5	137.2

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average i
Jordan Creek	1	100	104
Malheur River	2	98	95
Owyhee River	2	73	74

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average i
Jordan Creek	2	162	303
Malheur River	3	103	190
Owyhee River	3	290	215

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (l) Ground measurement. (m) Average for 5 or more years in base period.



# WATER SUPPLY OUTLOOK BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS OREGON

*as of*

MAY 1, 1972

**U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER**

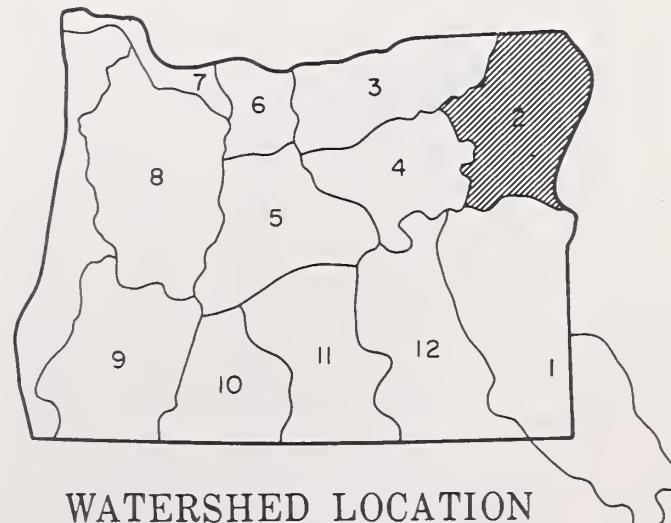
## GENERAL OUTLOOK

NORTHEAST OREGON WATER USERS WILL HAVE EXCELLENT WATER SUPPLIES. RESERVOIR STORAGE IS EXCELLENT. THE SNOWPACK REMAINS AT 147 TO 171 PERCENT OF AVERAGE ON MAY 1. PRECIPITATION DURING APRIL WAS 72 PERCENT OF AVERAGE. SOILS ARE WELL WETTED AND WILL ENHANCE RUNOFF FROM SPRING PRECIPITATION. THE GRANDE RONDE AT LA GRANDE FLOWED 95 PERCENT OF AVERAGE DURING APRIL.

## **WATER SUPPLY OUTLOOK**

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Alder Slope	Excellent	Excellent
Baker Valley	Excellent	Excellent
Big Creek	Excellent	Excellent
Clover Cr. (nr. N. Powder)	Excellent	Excellent
Cove	Excellent	Excellent
Durkee	Excellent	Excellent
Eagle Valley	Excellent	Excellent
Elgin	Excellent	Excellent
Enterprise-Joseph	Excellent	Average
Hereford-Bridgeport	Excellent	Excellent
Imnaha River	Excellent	Excellent
LaGrande-Island City	Excellent	Average
Lostine-Wallowa	Excellent	Average
North Powder R.-Wolf Creek	Excellent	Excellent
Pine Valley	Excellent	Excellent
Powder River-Elk Creek	Excellent	Excellent
Summerville	Excellent	Excellent
Sumpter Valley	Excellent	Excellent
Union-Hot Lake	Excellent	Excellent
Unity	Excellent	Excellent



WATERSHED LOCATION

Report prepared by

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# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
Thousand Acre Feet	Percent of Average	Last Year	Average i		
Bear near Wallowa	74	130	May-Sept.	76	57
Burnt near Hereford <sup>d</sup>	18.4	128	May-July	27	14.3
	20.4	132	May-Sept.	29	15.5
Catherine near Union	70	135	May-Sept.	72	52
Eagle Creek above Skull Creek	195	136	May-July	220	143
	210	135	May-Sept.	240	156
Grande Ronde at La Grande	119	118	May-July	122	101
	120	114	May-Sept.	126	105
Hurricane Creek near Joseph	56	124	May-Sept.	58	45
Imnaha at Imnaha	300	133	May-Sept.	380	225
Lostine near Lostine	148	128	May-Sept.	151	116
Powder River near Sumpter	43	111	May-July		42
	44	118	May-Sept.		44
Wallowa, East Fork near Joseph <sup>d</sup>	12.7	146	May-July		8.7
	15.2	136	May-Sept.		11.2

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average i
Phillips Lake	73.5	64.0	68.7	--
Thief Valley	17.4	17.4	17.4	--
Unity	25.2	25.9	24.7	24.1
Wallowa Lake	37.5	20.7	24.0	25.9

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average i
Burnt River	4	87	147
Grande Ronde River above La Grande	4	257	171
Powder River	5	98	153
Wallowa, Imnaha, Catherine Creek	6	108	150

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average i
Burnt, Powder	2	98	109
Grande Ronde, Catherine Cr., Imnaha River	2	100	108

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



# WATER SUPPLY OUTLOOK UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS

OREGON

*as of*

MAY 1, 1972

**U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER**

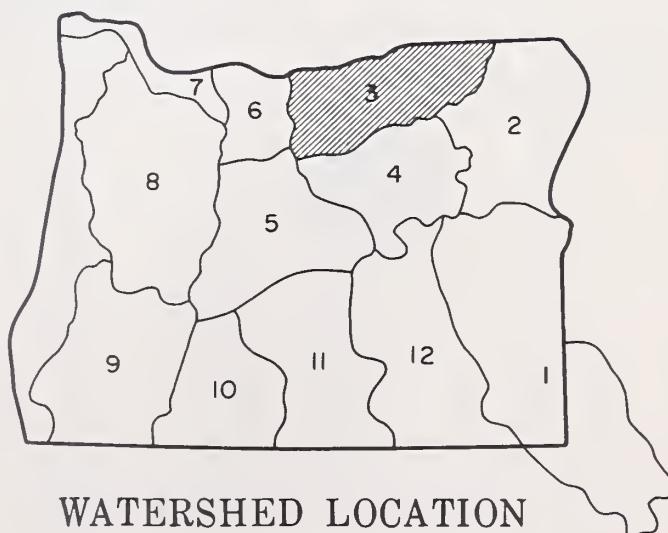
## GENERAL OUTLOOK

EXCELLENT WATER SUPPLIES ARE IN PROSPECT FOR WATER USERS IN UMATILLA AND MORROW COUNTIES FROM STREAMS WHICH DRAIN HIGHER ELEVATIONS OR HAVE ACCESS TO STORED WATER, BUT ARE AVERAGE FOR STREAMS DRAINING LOWER ELEVATIONS. COOL TEMPERATURES DURING APRIL MAINTAINED THE REMAINING SNOWPACK AT 90 PERCENT ABOVE AVERAGE. PRECIPITATION DURING APRIL WAS 81 PERCENT OF AVERAGE. MOUNTAIN SOILS ARE HOLDING AVERAGE AMOUNTS OF MOISTURE. RESERVOIR STORAGE IS EXCELLENT. COOL TEMPERATURES AND BELOW NORMAL RAINFALL REDUCED THE FLOW OF THE UMATILLA AT PENDLETON TO 81 PERCENT OF AVERAGE.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Walla Walla River, No. Fk.	Excellent	Average
Walla Walla River, So. Fk.	Excellent	Average
Walla Walla River, Main	Excellent	Average
Walla Walla River, Little	Excellent	Average
Couse Creek	Excellent	Average
Dry Creek	Excellent	Average
Pine Creek	Excellent	Average
Umatilla River, Main	Excellent	Average
Wildhorse Creek	Excellent	Average
Umatilla R. (Cold Springs Reservoir)	Excellent	Average
Umatilla R. (McKay Res.)	Excellent	Excellent
McKay Creek	Excellent	Excellent
Birch Creek	Excellent	Average
Butter Creek	Excellent	Average
Willow Creek	Excellent	Average
Rhea Creek	Excellent	Average
Rock Creek (John Day Tributary)	Excellent	Average



WATERSHED LOCATION

Report prepared by

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## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
Birch Creek at Rieth	10.8	122	May-July	6.4	8.9
Butter Creek near Pine City	4.4	110	May-July	3.8	4.0
McKay near Pilot Rock	14.0	127	May-Sept.		11.0
Umatilla River near Gibbon	46	110	May-July	48	42
Umatilla River at Pendleton	53	110	May-Sept.	54	48
Walla Walla, No. Fork near Milton	85	113	May-July	83	75
Walla Walla, So. Fork near Milton	91	113	May-Sept.	88	80
	10.5	128	May-July	10.3	8.2
	11.5	132	May-Sept.	11.3	8.7
	50	132	May-July	52	38
	65	130	May-Sept.	68	50

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Umatilla at Pendleton	550	May 29	May 22

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average
Cold Springs	50.0	49.8	49.6	49.7
McKay	73.8	67.8	62.2	57.7

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average
Umatilla, Walla Walla, McKay Creek	3	98	99

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average
McKay Creek	3	216	198
Umatilla River	3	141	177
Walla Walla River	2	152	242

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

# WATER SUPPLY OUTLOOK UPPER JOHN DAY WATERSHEDS OREGON

*as of*

MAY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

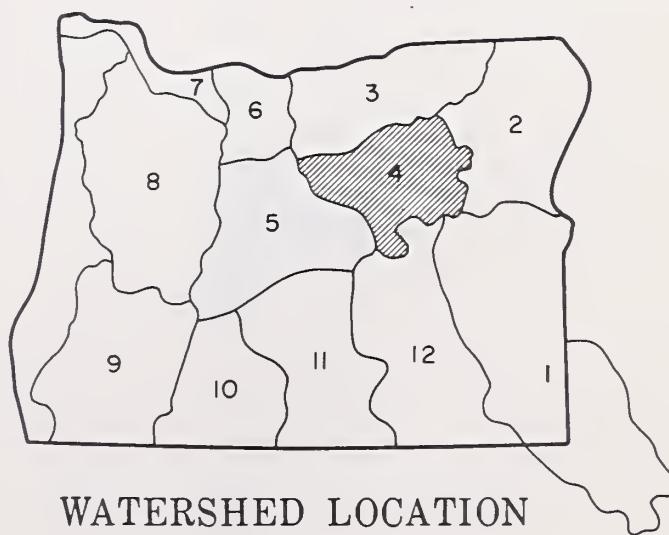
## GENERAL OUTLOOK

EXCELLENT WATER SUPPLIES ARE FORECAST FOR THE UPPER JOHN DAY BASIN. THE REMAINING HIGHER ELEVATION SNOWPACK IS 154 PERCENT OF AVERAGE. PRECIPITATION DURING APRIL WAS 79 PERCENT OF AVERAGE. WITH COOL TEMPERATURES PREVAILING DURING THE MONTH, THE JOHN DAY AT SERVICE CREEK FLOWED 86 PERCENT OF AVERAGE DURING APRIL.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Beech Creek	Average	Average
Beech Creek-Fox-Long Cr.	Average	Average
Bridge-Mountain Creeks	Average	Average
Camas Creek	Average	Average
Cherry Creek	Average	Average
Indian-Pine Creeks	Excellent	Average
John Day River, Main Fork	Average	Average
John Day River, Mid. Fork	Average	Average
John Day River, N. Fork	Average	Average
John Day River, S. Fork	Average	Average
Monument-Kimberly	Average	Average
Strawberry Creek	Excellent	Average



WATERSHED LOCATION

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# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>i</sup>
Camas Creek near Ukiah	19.5	100	May-July	19.5	
	20.1	100	May-Sept.	20.1	
John Day at Prairie City	31	103	May-July	30	
	36	106	May-Sept.	34	
John Day, Middle Fork at Ritter	76	108	May-July	85	70
	80	108	May-Sept.	88	74
John Day, North Fork at Monument	361	100	May-July		362
	376	100	May-Sept.		377
Strawberry near Prairie City	8.4	117	May-July	8.7	7.2
	9.1	115	May-Sept.	9.6	7.9

## SOIL MOISTURE

### SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:		RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>			Last Year	Average <sup>i</sup>
John Day abv. Dayville	6	99	105	John Day, North Fork	7	106	160
John Day, North Fork	2	100	109	John Day abv. Dayville	4	92	148

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67 + 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



# WATER SUPPLY OUTLOOK UPPER DESCHUTES, CROOKED WATERSHEDS OREGON

*as of*

MAY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

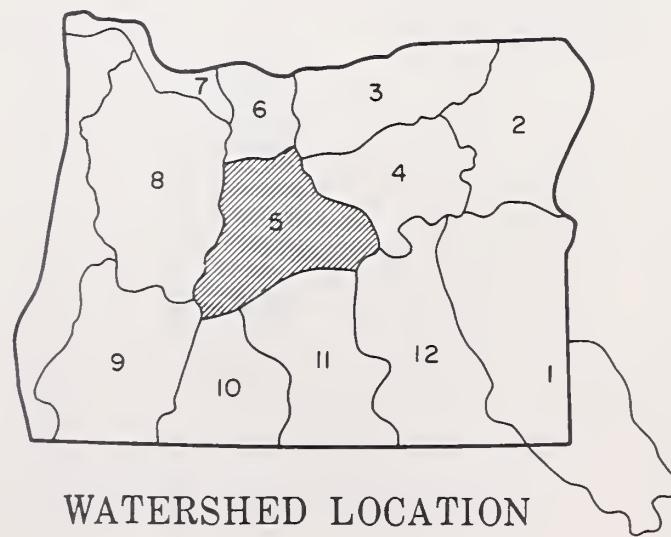
## GENERAL OUTLOOK

EXCELLENT WATER SUPPLIES ARE IN PROSPECT FOR WATER USERS IN THE UPPER DESCHUTES AND CROOKED RIVER WATERSHEDS. WATER USERS ON STREAMS DRAINING THE MID AND LOWER ELEVATIONS OF THE OCHOCOES WILL HAVE AVERAGE EARLY SEASON AND BELOW AVERAGE LATE SEASON WATER. THE REMAINING SNOWPACK IS 35 TO 65 PERCENT ABOVE AVERAGE ON THE UPPER DESCHUTES. PRECIPITATION WAS 136 PERCENT OF AVERAGE ON THE UPPER DESCHUTES DRAINAGE DURING APRIL. MOST RESERVOIRS ARE FILLED TO NEAR CAPACITY.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Arnold Irrigation District	Excellent	Average
Bear Creek	Average	Fair
Beaver Creek	Average	Average
Camp Creek	Average	Fair
Central Ore. Irrig. Dist.	Excellent	Excellent
Crooked River	Excellent	Excellent
Deschutes River	Excellent	Excellent
Hay-Trout Creeks	Average	Average
Lone Pine Irrig. Dist	Excellent	Excellent
Mill Creek	Average	Average
North Unit Irrig. Dist.	Excellent	Excellent
Ochoco Creek	Excellent	Average
Sisters Irrigation Dist.	Excellent	Average
Snow Creek Irrig. Dist.	Excellent	Average
Squaw Creek Irrig. Dist.	Excellent	Excellent
Swalley Ditch	Excellent	Excellent
Tumalo Project	Excellent	Excellent
Walker Basin Irrig. Dist.	Excellent	Excellent



WATERSHED LOCATION

Report prepared by

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U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

1218 S.W. WASHINGTON ST.  
PORTLAND, OREGON 97205

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>i</sup>
Beaver Creek near Paulina	8.1	121	May-July		6.7
	8.4	120	May-Sept.		7.0
Crane Prairie Reservoir total Inflow	89	131	May-July		68
	141	127	May-Sept.		111
Crescent at Crescent Lake	26	140	May-July	26	18.5
	32	133	May-Sept.	32	24
Crooked near Post	51	134	May-July		38
	52	130	May-Sept.		40
Deschutes at Benham Falls <sup>d</sup>	366	120	May-July		305
	609	119	May-Sept.		509
Deschutes below Snow Creek	82	139	May-Sept.		59
Deschutes, Little near LaPine <sup>d</sup>	72	118	May-July	102	61
	84	115	May-Sept.	118	73
Ochoco Reservoir net Inflow	11.8	99	May-Sept.		12.1
Odell near Crescent	31	124	May-Sept.		25
Squaw near Sisters	52	111	May-Sept.	66	47
Tumalo near Bend <sup>d</sup>	52	121	May-Sept.		43

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Crane Prairie net Inflow	300	*	July 15
Deschutes at Bend	1500	*	July 1
Little Deschutes near La Pine	400 200	June 11 July 12	June 7 July 8
*Will not recede to low flow amount.			

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>i</sup>
Crane Prairie	55.3	58.7	46.5	45.8
Crescent Lake	86.9	86.7	50.6	50.7
Ochoco	47.5	45.9	44.2	38.5
Prineville	153.0	152.4	148.9	147.1 <sup>m</sup>
Wickiup	200.0	198.1	195.1	193.7

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>i</sup>
Crooked R., Upper Deschutes River	1	96	101

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Crooked, Ochoco	-	-	-
Deschutes abv. Wickiup	1	117	162
Little Deschutes	4	80	134
Tumalo & Squaw Crs.	3	109	165

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



# WATER SUPPLY OUTLOOK HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS OREGON

*as of*

MAY 1, 1972

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U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

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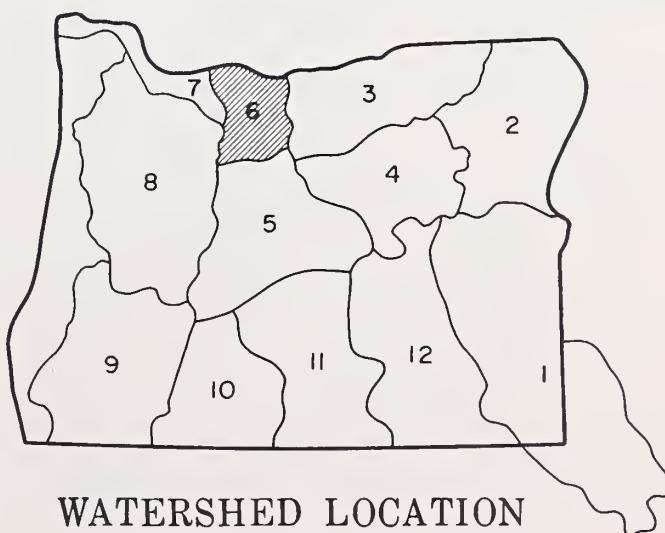
## GENERAL OUTLOOK

MOST OF HOOD RIVER AND WASCO COUNTIES WILL HAVE EXCELLENT WATER SUPPLIES DURING 1972. WATER USERS ON STREAMS DRAINING LOWER ELEVATIONS WILL HAVE ONLY FAIR LATE SEASON WATER SUPPLIES. THE REMAINING SNOWPACK IS 179 PERCENT OF AVERAGE. PRECIPITATION DURING APRIL WAS 76 PERCENT OF AVERAGE AND 133 PERCENT FOR THE APRIL-NOVEMBER PERIOD. CLEAR LAKE (WASCO) RESERVOIR IS FULL AND SPILLING.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Aldridge Ditch (Tony Creek)	Excellent	Excellent
Badger Creek	Excellent	Excellent
Dee Irrigation Dist.	Excellent	Excellent
East Fork Irrig. Dist.	Excellent	Excellent
Farmers Irrigation Dist.	Excellent	Excellent
Hood River Irrig. Dist	Excellent	Excellent
Juniper Flat	Excellent	Excellent
Middle Fork Irrig. Dist	Excellent	Excellent
Mile Creeks	Average	Fair
Mill Creek	Average	Fair
Mount Hood Irrig. Dist.	Excellent	Excellent
Rock-Gate-Threemile Crs.	Excellent	Excellent
Tygh Creek	Excellent	Excellent
White River	Excellent	Excellent



Report prepared by

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1218 S.W. WASHINGTON ST.  
PORTLAND, OREGON 97205

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST Thousand Acre Feet	Percent of Average	FORECAST PERIOD	THOUSAND ACRE FEET
			Last Year	Average <sup>i</sup>
Hood near Tucker Bridge	232	123	May-July	189
	295	121	May-Sept.	243
Hood, West Fork near Dee	105	117	May-July	90
	134	119	May-Sept.	112
White below Tygh Valley	143	166	May-July	86
	160	156	May-Sept.	103

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Clear Branch Inflow	*51	July 15-31	**39
*Average cfs forecast to flow for this two-week period.			
**Average cfs for period of record.			

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>i</sup>
Clear Lake (Wasco)	11.9	12.1	5.9	4.9

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Hood River	3	97	179
Mile Creeks	-	-	-
White River	3	97	179

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>i</sup>
Hood River, Mile Creeks	1	99	--

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



# WATER SUPPLY OUTLOOK LOWER COLUMBIA WATERSHEDS OREGON

*as of*

MAY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

MOST OF THE MAJOR WATER PRODUCING AREAS OF THE COLUMBIA BASIN HAVE MAXIMUM OR NEAR MAXIMUM OF RECORD SNOWPACKS. THE SNOW IS PARTICULARLY HEAVY ON ALL TRIBUTARIES OF BRITISH COLUMBIA, WESTERN MONTANA, NORTH CENTRAL IDAHO AND IN WASHINGTON'S CASCADE MOUNTAINS. THE PRESENT SNOW INDICATES THAT THE MAIN SNOWMELT PERIOD WILL PRODUCE AN UNREGULATED PEAK FLOW OF NEAR 850,000 TO 1,000,000 SECOND FEET AT THE DALLES, OREGON. THESE FLOWS WOULD RESULT IN A RIVER STAGE AT VANCOUVER OF 28 TO 31 FEET; ACTUAL FLOW AND RIVER STAGE WILL DEPEND ON SNOWMELT CONDITIONS DURING LATE MAY AND EARLY JUNE, AND ON THE AMOUNT THAT RIVER REGULATION REDUCES THE FLOW. RIVER MANAGEMENT AGENCIES HAVE INDICATED THAT RESERVOIR REGULATION WILL REDUCE THE RIVER STAGE AT VANCOUVER TO ABOUT 21 TO 23 FEET.

## COLUMBIA RIVER BASIN



Report prepared by

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# SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average
Sandy River	2	101	177

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST Thousand Acre Feet	Percent of Average	FORECAST PERIOD	THOUSAND ACRE FEET Last Year
Columbia at The Dalles <sup>d</sup>	80,600	135	May-June	74,220
	118,500	128	May-Sept.	108,712
Sandy River near Marmot	296	124	May-July	239
	354	121	May-Sept.	293

## HISTORICAL DATA (Columbia River at The Dalles)

YEAR	STREAMFLOW <sup>d</sup> (1,000 A.F.)			PEAK <sup>e</sup> (1,000 c.f.s.)	DATE
	APR. - SEPT.	APR. - JUNE	MAY - JUNE		
1953	100,600	64,900	55,800	609	June 17
1954	119,500	70,500	59,300	561	May 23
1955	99,500	58,300	50,300	545	June 26
1956	131,400	96,900	75,800	815	June 3
1957	105,700	80,500	67,200	700	May 22
1958	97,700	72,000	58,600	593	May 31
1959	112,500	71,900	58,900	555	June 23
1960	97,000	64,000	48,000	442	June 6
1961	101,400	74,400	64,000	699	June 8
1962	94,600	64,100	49,200	460	June 5
1963	87,000	56,300	46,200	437	June 18
1964	109,020	70,739	61,313	662	June 18
1965	114,137	80,024	62,477	520	June 9
1966	87,268	58,120	45,922	396	June 12
1967	107,771	72,408	65,112	622	June 10
1953-67 Avg.	105,181	72,408	59,689	574	

## LOWER COLUMBIA RIVER FLOOD STAGES (with 9.5' tide at Astoria)

VANCOUVER GAGE (Weather Bu.)	FLOW AT THE DALLES (1,000 c.f.s.)	DRAINAGE DISTRICT PUMPHOUSE						
		SANDY	SAUVIE ISL.	SCAPPOOSE	DEER ISL.	RAINIER	BEAVER	WOODSON
		118.9	96.0	91.0	77.0	62.0	52.0	47.0
35 (1894)	1210	41.2	34.2	33.3	28.5	21.9	17.5	15.5
34	1160	40.5	33.5	32.5	27.7	21.2	17.0	15.0
33	1100	39.6	32.4	31.4	26.7	20.2	16.1	14.3
32	1050	38.9	31.5	30.5	25.7	19.5	15.4	13.7
31 (1948)	1000	38.0	30.7	29.5	25.1	18.8	14.7	13.0
30	943	36.6	29.5	28.5	24.3	18.1	14.0	12.4
29	897	35.5	28.5	27.7	23.7	17.5	13.4	11.8
28	853	34.3	27.5	26.7	22.8	17.0	13.0	11.4
27 (1956)	811	33.0	26.5	25.6	21.8	16.2	12.5	11.0
26 (1950)	771	32.1	25.5	24.6	20.9	15.5	12.2	10.7
25	733	30.7	24.2	23.2	19.7	14.6	11.7	10.3
24	697	29.7	23.0	22.2	19.0	14.1	11.4	10.2
23	662	29.0	22.3	21.4	18.4	13.6	11.2	10.0
22	628	28.1	21.4	20.3	17.2	13.0	10.9	9.7
21	595	27.2	20.7	19.5	16.4	12.6	10.6	9.6
20 (1954)	564	26.2	19.8	18.6	15.5	12.1	10.2	9.4
19	534	25.5	19.2	18.0	15.0	11.8	10.0	9.3
18	501	24.4	18.3	17.2	14.3	11.4	9.8	9.1
17	479	23.4	17.4	16.4	13.7	11.0	9.6	8.9
16	452	22.4	16.5	15.5	13.0	10.5	9.3	8.7

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records.



# WATER SUPPLY OUTLOOK WILLAMETTE WATERSHEDS OREGON

*as of*

MAY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

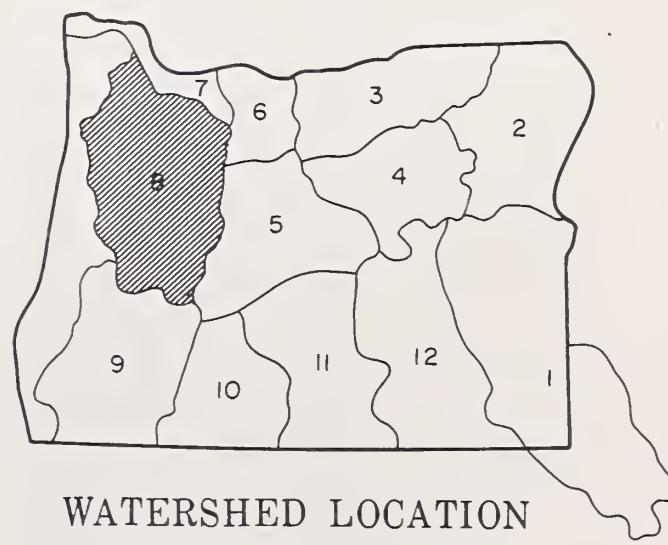
## GENERAL OUTLOOK

EXCELLENT WATER SUPPLIES ARE IN PROSPECT FOR THE WILLAMETTE VALLEY. THE MAY 1 SNOWPACK RANGES FROM 118 PERCENT OF AVERAGE AT MID ELEVATIONS TO 200 PERCENT AT THE HIGHER ELEVATIONS. PRECIPITATION WAS 153 PERCENT OF AVERAGE DURING THE MONTH. THE FLOW OF MIDDLE FORK OF THE WILLAMETTE NEAR OAKRIDGE WAS 116 PERCENT OF AVERAGE. RESERVOIRS ARE STORING NEAR AVERAGE AMOUNTS FOR MAY 1.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Calapooya	Excellent	Average
Clackamas	Excellent	Excellent
McKenzie	Excellent	Excellent
Molalla	Excellent	Average
Santiam, North	Excellent	Excellent
Santiam, South	Excellent	Excellent
Willamette, Coast Fork	Excellent	Excellent
Willamette, Middle Fork	Excellent	Excellent



WATERSHED LOCATION

Report prepared by

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## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST Thousand Acre Feet	Percent of Average	FORECAST PERIOD	THOUSAND ACRE FEET Last Year	Average <i>i</i>
Clackamas at Estacada	577	127	May-July	726	455
	709	125	May-Sept.	864	566
Clackamas above Three Lynx	451	130	May-July	569	348
	554	125	May-Sept.	690	442
McKenzie at McKenzie Bridge	435	129	May-July		338
	615	126	May-Sept.		487
McKenzie near Vida	1028	136	May-July		754
	1312	133	May-Sept.		989
McKenzie, So. Fork near Rainbow	202	136	May-July		148
	242	136	May-Sept.		178
Oak Grove Fork above Power Intake	111	123	May-July	144	90
	161	126	May-Sept.	190	128
Row near Dorena	75	129	May-July		58
	80	129	May-Sept.		62
Santiam, North at Mehama <sup>d</sup>	648	126	May-July		513
	754	123	May-Sept.		614
Santiam, South at Waterloo	468	138	May-July		337
	506	135	May-Sept.		375
Willamette, Mid. Fk. blw. N. Fk. nr. Oakridge <sup>d</sup>	685	140	May-July	671	490
	794	134	May-Sept.	798	593
Willamette, No. Fk. of Mid. Fk. near Oakridge	160	127	May-July		126
	178	121	May-Sept.		147
Willamette at Salem	3500	126	May-July		2783
	4075	124	May-Sept.		3286

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <i>i</i>
Clackamas River	2	75	200
McKenzie River	3	98	170
Row River	2	56	118
Santiam River	4	83	173
Willamette, Mid. Fk.	4	82	147

## RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <i>i</i>
Blue River	85.6*	71.9	68.0	--
Cottage Grove	30.0*	24.5	23.4	24.0
Cougar	155.2*	129.5	117.6	--
Detroit	299.9*	254.7	231.4	231.8
Dorena	70.5*	53.4	53.8	53.8
Fall Creek	115.0*	98.6	44.6	--
Fern Ridge	94.2*	94.5	95.1	--
Foster	30.0*	25.5	20.8	--
Green Peter	270.0*	208.2	207.1	--
Hills Creek	200.0*	165.2	144.1	163.1
Lookout Point	337.2*	245.7	260.0	290.3
Timothy Lake	61.7	58.9	60.0	55.3

\*Multiple purpose  
reservoir--space  
reserved primarily  
for flood runoff.

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

# WATER SUPPLY OUTLOOK ROGUE, UMPQUA, WATERSHEDS OREGON

*as of*

MAY 1, 1972

**U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER**

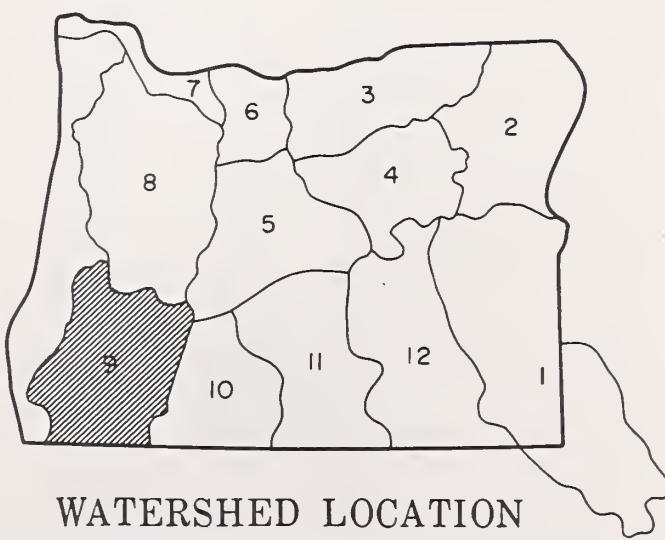
## GENERAL OUTLOOK

WATER SUPPLIES WILL BE EXCELLENT ON THE ROGUE-UMPQUA DRAINAGE AND AVERAGE FOR THE STREAMS DRAINING THE SISKIYOUS. COOLER THAN NORMAL TEMPERATURES RESULTED IN A SNOWPACK THAT IS 50 PERCENT ABOVE AVERAGE REMAINING AT THE HIGHER ELEVATIONS OF THE CASCADES. PRECIPITATION DURING APRIL WAS 149 PERCENT OF AVERAGE AND 120 PERCENT FOR THE NOVEMBER-JULY PERIOD. RESERVOIR STORAGE IS EXCELLENT. STREAMFLOW WAS NEAR AVERAGE FOR THE MONTH.

## **WATER SUPPLY OUTLOOK**

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Althouse Creek	Average	Average
Applegate River, Big	Average	Average
Applegate River, Little	Average	Average
Ashland Creek	Average	Average
Butte Creek, Big	Excellent	Average
Butte Creek, Little	Excellent	Average
Cow Creek	Average	Average
Deer Creek	Average	Average
Elk Creek	Average	Average
Emigrant Creek (abv. Res.)	Average	Average
Evans Creek	Average	Average
Gold Hill Irrigation Dist.	Excellent	Average
Grants Pass Irrigation Dist.	Excellent	Average
Grave Creek	Average	Average
Illinois River, East Fork	Average	Average
Illinois River, West Fork	Average	Average
Jump-off-Joe Creek	Average	Average
Neil Creek	Average	Average
Red Blanket Creek	Average	Average
Rogue River	Excellent	Average
Sucker Creek	Average	Fair
Table Rock Irrig. Dist.	Excellent	Average
Thompson Creek	Average	Fair
Wagner Creek	Average	Fair
Williams Creek	Average	Fair



WATERSHED LOCATION

Report prepared by

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# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST Thousand Acre Feet	Percent of Average	FORECAST PERIOD	THOUSAND ACRE FEET Last Year	Average <sup>i</sup>
Applegate near Copper	79	95	May-July		83
	86	96	May-Sept.		90
Clearwater above Trap Creek <sup>d</sup>	77	128	May-Sept.		60
Fourmile Lake net Inflow	5.4	186	May-July		2.9
	5.4	186	May-Sept.		2.9
Hyatt Reservoir net Inflow <sup>d</sup>	2.5	104	May-July		2.4
Illinois River near Kerby	96	103	May-July		93
	102	103	May-Sept.		99
Little Butte, N. Fk. at Fish Lake nr. Lake Cr. <sup>d</sup>	12.3	100	May-Sept.	20	12.3
Little Butte, S. Fk. near Lake Creek	19.2	100	May-July	30	19.2
	22	100	May-Sept.	33	22
Rogue above Prospect	211	110	May-July		192
	273	110	May-Sept.		249
Rogue, South Fork near Prospect <sup>d</sup>	51	110	May-July		46
	63	110	May-Sept.		57
Rogue at Raygold near Central Point	567	108	May-July	768	525
	740	108	May-Sept.	961	685
Rogue at Grants Pass	582	88	May-Sept.		662
Umpqua, No. blw. Lemolo Res. nr. Toketee Falls <sup>d</sup>	165	112	May-Sept.		147

## FORECAST DATE of LOW FLOW VALUES

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value	RESERVOIR	Usable Capacity	Usable Storage		
						This Year	Last Year	Average <sup>i</sup>
Little Butte Creek, South Fork	100	June 1	May 27	Emigrant Lake	39.0	38.4	38.9	36.7*
Rogue at Raygold	1200	Sept. 4	Aug. 7	Fish Lake	8.0	8.1	6.7	6.4
	*1960	July 1		Fourmile Lake	16.1	14.4	13.0	11.8
	*1348	Aug. 15		Howard Prairie	60.0	60.6	60.6	40.1
*Average daily cfs forecast to flow on this date.				Hyatt Prairie	16.1	15.2	16.0	14.2
*Average for years of record (in base period) after reconstruction.								

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Applegate	-	-	-
Bear Creek	-	-	-
Butte Creek	1	87	150
Illinois River	-	-	-
North Umpqua	3	71	140
Rogue River	4	80	150

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

# WATER SUPPLY OUTLOOK KLAMATH WATERSHEDS OREGON

*as of*

MAY 1, 1972

**U. S. D. A. SOIL CONSERVATION SERVICE**  
**OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER**

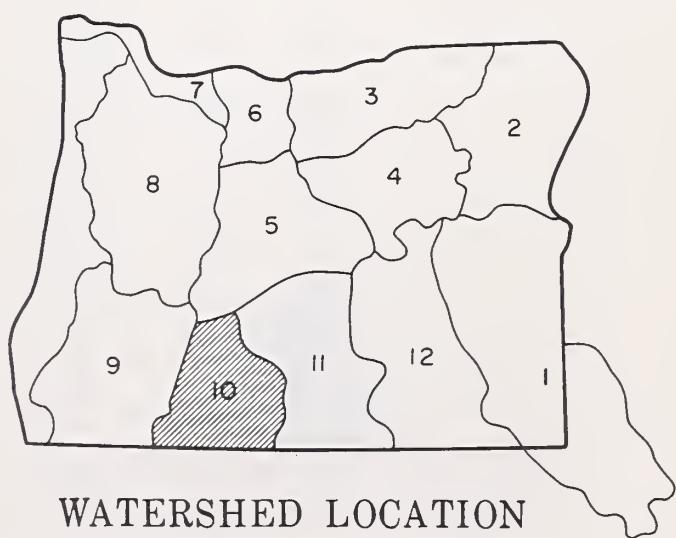
## GENERAL OUTLOOK

EXCELLENT TO AVERAGE WATER SUPPLIES ARE FORECAST FOR KLAMATH BASIN WATER USERS DURING THE SPRING AND EARLY SUMMER, WITH AVERAGE TO SLIGHTLY BELOW AVERAGE DURING THE LATE SEASON FOR THOSE WITHOUT ACCESS TO STORED WATER. THE SNOWPACK RANGES FROM 161 PERCENT FOR THE LOST RIVER TO 82 PERCENT ON THE SPRAGUE RIVER. PRECIPITATION DURING APRIL WAS 121 PERCENT OF AVERAGE. MOUNTAIN WATERSHED SOILS CONTAIN NEAR AVERAGE AMOUNTS OF MOISTURE. RESERVOIR STORAGE IS EXCELLENT. THE KLAMATH LAKE NET INFLOW WAS AVERAGE FOR THE MONTH OF APRIL.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Ft. Klamath Valley	Excellent	Average
Lost River (Clear Lake)	Excellent	Average
Lost River (Gerber)	Excellent	Average
Lost River (Willow Res.)	Excellent	Average
Sprague River	Average	Fair
Upper Klamath Lake	Average	Average
Williamson River	Average	Average



WATERSHED LOCATION

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>i</sup>
Clear Lake Reservoir Inflow	15.1	100	May-Sept.	15.1	
Gerber Reservoir Inflow	5.6	113	May-Sept.	5.0	
Sprague near Chiloquin	191	92	May-Sept.	208	
Upper Klamath Lake net Inflow <sup>k</sup>	419	100	May-Sept.	419	
Williamson below Sprague River	352	106	May-Sept.	331	

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>i</sup>
Upper Klamath	1	102	108

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>i</sup>
Clear Lake	440.2	416.3	419.2	266.5
Gerber	94.0	94.6	94.6	65.5
Upper Klamath Lake	584.0	538.5	516.2	519.2

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Lost River	2	74	161
Sprague River	3	68	82
Upper Klamath	5	104	130
Williamson River	3	93	138

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

# WATER SUPPLY OUTLOOK LAKE COUNTY, GOOSE LAKE WATERSHEDS OREGON

*as of*

MAY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

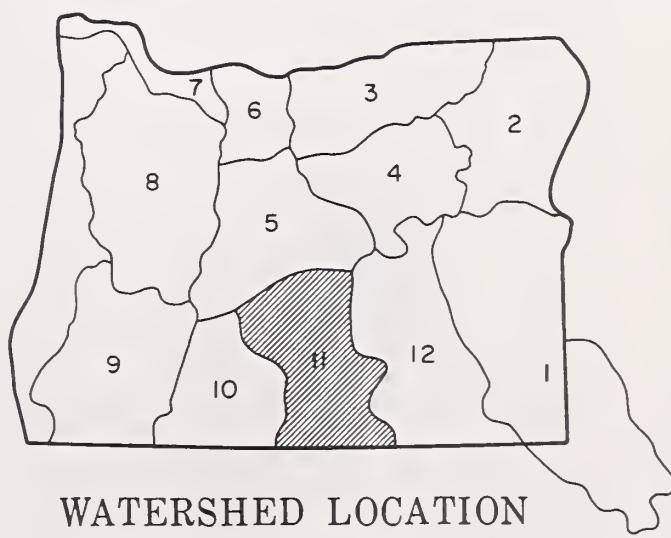
## GENERAL OUTLOOK

LAKE COUNTY WATER USERS WILL HAVE EXCELLENT EARLY SEASON AND AVERAGE LATE SEASON WATER SUPPLIES DURING THE 1972 SEASON. THE REMAINING SNOWPACK RANGES FROM 151 PERCENT TO 62 PERCENT OF AVERAGE, DEPENDING ON ELEVATION. PRECIPITATION WAS 81 PERCENT OF AVERAGE DURING THE MONTH. MOUNTAIN SOILS ARE HOLDING NEAR AVERAGE AMOUNTS OF WATER. STORED WATER SUPPLIES ARE EXCELLENT.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Chewaucan River	Excellent	Average
Crooked Creek	Average	Fair
Deep Creek	Excellent	Average
Dry Creek	Excellent	Average
East Side Goose Lake	Average	Average
Guano Lake	Average	Average
Honey Creek	Average	Average
Lakeview Water Users Assn.	Excellent	Average
Rock Creek (Hart Mountain)	Average	Average
Silver-Buck Creeks	Average	Average
Summer Lake	Excellent	Average
Thomas Creek	Average	Average
Twentymile Creek	Excellent	Average
Warner Lakes	Excellent	Average



WATERSHED LOCATION

Report prepared by

T.A. GEORGE AND H.M. VANCE

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

1218 S.W. WASHINGTON ST.  
PORTLAND, OREGON 97205

# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>i</sup>
Chewaucan near Paisley	58	100	May-July	124	58
	62	100	May-Sept.	129	62
Deep above Adel	51	121	May-July	99	42
	53	120	May-Sept.	102	44
Drews Reservoir net Inflow <sup>d</sup>	10.0	88	May-July		11.3
Honey near Plush	11.0	105	May-July	30	10.5
	11.2	105	May-Sept.	30	10.7
Silver Creek near Silver Lake	12.1	100	May-July	21	12.1
	14.0	100	May-Sept.	24	14.0
Twentymile near Adel	13.0	135	May-July		9.6
	13.3	133	May-Sept.		10.0

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>i</sup>
Chewaucan, Silver Creek, Drew Creek	1	102	108
Honey, Deep, 20-Mile Crs.	1	100	101

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>i</sup>
Cottonwood	8.7	7.9	8.7	5.8*
Drews	63.0	63.0	63.0	54.3
Thompson Valley	19.5	b	--	14.8

\*Average for years of record (in base period) after reconstruction.

## SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Chewaucan River	3	78	89
Deep Creek	2	74	151
Drew Creek	2	0	0
Honey Creek	1	37	62
Silver Creek	-	-	-
Twentymile Creek	-	-	-

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

# WATER SUPPLY OUTLOOK HARNEY BASIN WATERSHEDS OREGON

*as of*

MAY 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

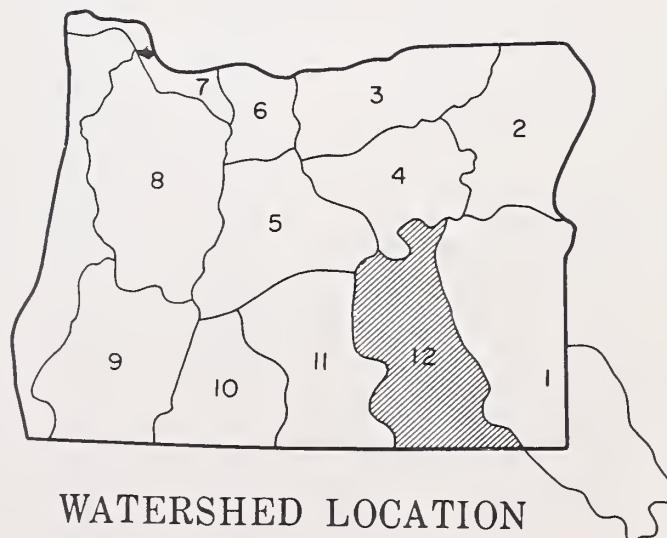
## GENERAL OUTLOOK

HARNEY BASIN WATER USERS ON THE DONNER AND BLITZEN AND SILVIES RIVERS WILL HAVE EXCELLENT WATER SUPPLIES DURING THE 1972 SEASON, WHILE THE WATER SUPPLY ON STREAMS DRAINING LOWER ELEVATION AREAS WILL BE AVERAGE TO SLIGHTLY BELOW AVERAGE FOR LATE SEASON WATER. THE SNOWPACK IS 145 PERCENT OF AVERAGE ON THE SILVIES RIVER. MID ELEVATION SNOW IS AVERAGE TO BELOW AVERAGE. PRECIPITATION DURING APRIL WAS 43 PERCENT OF NORMAL DURING APRIL.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Catlow Valley	Average	Average
Cow Creek	Average	Fair
Donner und Blitzen River	Excellent	Excellent
Mill-Coffeepot Creeks	Average	Fair
Rattlesnake Creek	Average	Fair
Silver Creek	Average	Fair
Silvies River	Excellent	Average
Soldier-Prather Creek	Average	Fair
Trout Creek	Average	Average
Whitehorse Creek	Average	Average



WATERSHED LOCATION

Report prepared by

T.A. GEORGE AND H.M. VANCE

U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

1218 S.W. WASHINGTON ST.  
PORTLAND, OREGON 97205

# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET
	Thousand Acre Feet	Percent of Average		Last Year
Donner und Blitzen near Frenchglen	49	123	May-July	53
	56	124	May-Sept.	59
Silver near Riley	6.7	100	May-July	6.4
Silvies near Burns	48	123	May-July	56
	50	123	May-Sept.	58
Trout near Denio	5.5	100	May-July	11.7
	6.0	100	May-Sept.	12.4

# SOIL MOISTURE

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:		RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average			Last Year	Average
Silvies River, Silver Cr. Trout Cr., Donner und Blitzen River	2	100	105	Donner und Blitzen R.	-	-	-
	c			Silver Creek	-	-	-
				Silvies River	4	89	145
				Trout Creek	-	-	-

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

# BASIC DATA SUPPLEMENT 1

MAY 1, 1972

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR		PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)
		Last Yr.	Ave	i
OWYHEE, MALHEUR WATERSHEDS				
Antelope Ridge (Ida.)	c			
Battle Creek <sup>e</sup> (Ida.)	c			
Bear Creek <sup>e</sup> (Nev.)	4/30	60	24.0	23.8 19.4 <sup>h</sup>
Big Bend (Nev.)	4/25	10	4.1	0.1 0.9 <sup>h</sup>
Blue Mountain Springs	4/26	33	16.3	15.8 8.4 <sup>h</sup>
Blue Mtn. Springs Pillow	4/26		8.8	7.5 - -
Buck Pasture <sup>e</sup>	c			
Buckskin, Lower (Nev.)	c			
Buckskin, Upper (Nev.)	c			
Bull Basin <sup>e</sup> (Ida.)	c			
Bully Creek <sup>e</sup>	c			
Call Meadow <sup>e</sup>	c			
Columbia Basin <sup>e</sup> (Nev.)	c			
Cottonwood-Indian <sup>e</sup>	c			
Crane Prairie	4/26	1	0.6	1.2 - -
Disaster Peak (Nev.)	c			
Eldorado Pass	4/26	0	0.0	0.0 <sup>m</sup>
Fawn Creek <sup>e</sup> (Nev.)	c			
Fish Creek	c			
Fish Creek Pillow*	c			
Flag Prairie <sup>e</sup>	c			
Fox Creek (Nev.)	c			
Fry Canyon (Nev.)	4/25	0	0.0	0.0 1.0 <sup>h</sup>
Gold Creek (Nev.)	4/25	0	0.0	0.0 <sup>h</sup>
Granite Peak (Nev.)	c			
Hyde Pasture <sup>e</sup> (Ida.)	c			
Jack Creek, Lower (Nev.)	4/26	0	0.0	0.0 0.2 <sup>h</sup>
Jack Creek, Upper (Nev.)	4/26	14	5.3	6.6 3.5 <sup>h</sup>
Jack Peak (Nev.)	4/26	93	36.6	38.5 26.6 <sup>h</sup>
Lake Creek R. S.	4/26	0	0.0	1.0 - -
Laurel Draw (Nev.)	c			
Logan Valley <sup>e</sup>	c			
Lookout Butte <sup>e</sup>	c			
Louse Canyon <sup>e</sup>	c			
Martin Creek (Nev.)	c			
Merritt Mountain <sup>e</sup> (Nev.)	c			
Midas <sup>e</sup> (Nev.)	c			
Mud Flat (Ida.)	c			
Oregon Canyon <sup>e</sup>	c			
Quinn Ridge <sup>e</sup> (Nev.)	c			
Red Canyon <sup>e</sup> (Ida.)	c			
Rock Spring	4/25	0	0.0	0.0 0.2
Rodeo Flat (Nev.)	4/25	0	0.0	0.0 1.2 <sup>h</sup>
76 Creek <sup>e</sup> (Nev.)	4/30	17	6.8	- - - -
Silver City (Ida.)	4/25	44	21.5	16.6 6.7 <sup>h</sup>
Silvies	c			
Silvies Pillow*	c			
South Mountain #2 (Ida.)	4/25	28	12.5	4.3 - -
Stag Mountain <sup>e</sup> (Nev.)	c			
Stinking Water	5/1	0	0.0	0.0 - -
Succor Creek <sup>e</sup> (Ida.)	c			
Taylor Canyon (Nev.)	4/26	0	0.0	0.0 0.1 <sup>h</sup>
Toe Jam <sup>e</sup> (Nev.)	c			
Tremewan Ranch (Nev.)	4/25	0	0.0	0.0 - -
Triangle (Ida.)	c			
Trout Creek <sup>e</sup>	c			
"V" Lake <sup>e</sup>	c			
Vaught Ranch <sup>e</sup> (Ida.)	c			
War Eagle <sup>e</sup> (Ida.)	c			
*Manometer Readings.				

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR		PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)
	Last Yr.	Ave	i	
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS				
Aneroid Lake #1	4/25	119	48.2	49.2 39.7 <sup>m</sup>
Aneroid Lake #2	4/26	101	43.6	45.6 34.7 <sup>h</sup>
Anthony Lake	4/28	94	43.2	32.2 30.3 <sup>h</sup>
Bald Mountain <sup>e</sup> (Ore.)	4/30	75	34.5	25.8 20.1 <sup>m</sup>
Beaver Reservoir	4/26	33	14.7	7.2 6.9
Beaver Reservoir (Alt.)	4/26	36	15.8	9.3 - -
Big Sheep <sup>e</sup>	4/30	60	27.6	30.0 22.0 <sup>m</sup>
Blue Mtn. Summit	4/27	5	2.2	2.0 1.9
Bourne	4/26	23	10.6	10.7 7.7 <sup>h</sup>
County Line	4/28	0	0.0	0.0 1.0 <sup>h</sup>
Dooley Mountain	4/24	3	1.4	5.9 1.9 <sup>h</sup>
Eilertson Meadows	4/26	11	4.9	7.7 4.5 <sup>h</sup>
Eldorado Pass	4/26	0	0.0	0.0 0.0 <sup>m</sup>
Gold Center	4/26	13	5.4	12.5 4.2 <sup>h</sup>
Goodrich Lake	4/27	110	55.4	- - 27.0 <sup>h</sup>
Intake House	4/25	6	2.6	9.3 - -
Little Alps	4/28	53	23.2	15.9 13.1 <sup>h</sup>
Little Antone	4/28	0	0.0	0.0 - -
Lucky Strike	4/27	41	19.4	10.7 8.5 <sup>h</sup>
Lucky Strike Pillow*	b			
Meacham	4/27	8	3.8	T 2.4
Mirror Lake <sup>e</sup>	b			99.0 74.5 <sup>m</sup>
Moss Spring	4/30	81	37.4	30.2 21.2 <sup>h</sup>
Power Plant	4/25	0	0.0	0.0 - -
Schneider Meadows	4/27	69	31.9	42.4 24.3 <sup>h</sup>
Schoolmarm	4/28	0	0.0	0.0 0.5
Standley <sup>e</sup>	4/30	107	49.2	39.0 31.6 <sup>m</sup>
Taylor Green	4/30	42	21.2	16.8 - -
Tipton	4/27	2	0.8	3.2 1.6 <sup>h</sup>
Tipton Snow Pillow	b			
Tollgate	4/27	67	34.2	26.9 18.0
TV Ridge <sup>e</sup>	4/30	69	31.7	33.0 - -
*Manometer Reading.				
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS				
Arbuckle Mountain	4/28	3	1.3	2.1 2.8
Arbuckle Mountain Pillow*	4/28		34.5	- - -
Battle Mountain Summit	4/27	0	0.0	0.0 0.3 <sup>m</sup>
Blue Mountain Camp	4/27	32	17.4	7.2 3.3 <sup>h</sup>
Emigrant Springs	4/27	0	0.0	0.0 1.0
High Ridge Pillow*	4/27	88	45.1	- - -
Lucky Strike	4/27	41	19.4	10.7 8.5 <sup>h</sup>
Lucky Strike Pillow*	b			- - -
Meacham	4/27	8	3.8	T 2.4
Tollgate	4/27	67	34.2	26.9 18.0
Weston Mountain	4/27	0	0.0	0.0 0.0 <sup>m</sup>
*Manometer Readings.				

## **BASIC DATA SUPPLEMENT 1**

MAY 1, 1972

SNOW

## DRAINAGE BASIN and/or SNOW COURSE

## UPPER JOHN DAY WATERSHEDS

Anthony Lake  
Arbuckle Mountain  
Arbuckle Mtn. Pillow\*  
Battle Mountain Summit  
Beech Creek Summit  
Blue Mountain Springs  
Blue Mtn. Springs Pillow\*  
Blue Mountain Summit  
Derr  
East Fork Canyon<sup>e</sup>  
Gold Center  
Indian Creek Butte<sup>e</sup>  
Izee Summit  
Lucky Strike  
Lucky Strike Pillow\*  
Marks Creek  
Ochoco Meadows  
Olive Lake<sup>e</sup>  
Schoolmarm  
Snow Mountain  
Snow Mtn. Pillow  
Starr Ridge  
Tipton  
Williams Ranch

\*Manometer readings.

## UPPER DESCHUTES, CROOKED WATERSHEDS

Black Pine Spring  
Caldwell Ranch  
Cascade Summit  
Chemult  
Deer Creek  
Derr  
Hogg Pass  
Hungry Flat  
Irish-Taylor  
Irish-Taylor Pillow  
Marks Creek  
Mowich  
New Crescent Lake  
New Dutchman Flat #2  
Ochoco Meadows  
Snow Mountain  
Snow Mtn. Pillow  
Tamarack  
Tangent  
Three Creek Butte  
Three Creek Meadow  
Three Creek Mdw. Pillow  
Waldo Lake  
Willamette Pass  
Willamette Pass Pillow

SNOW

## DRAINAGE BASIN and/or SNOW COURSE

## CREEKS, LOWER DESCHUTES WATERSHEDS

Brooks Meadows	<i>c</i>				
Clear Lake	4/25	25	10.8	16.8	4.8 <sup>h</sup>
Clear Lake (Experimental)	4/25	43	18.5	24.0	12.4 <sup>h</sup>
Cooper Spur					<b>DISCONTINUED</b>
Cooper Spur Alt.	5/2	0	0.0	15.7	--
Greenpoint	<i>b</i>			33.2	17.5
Knebal Springs	<i>c</i>				
Parkdale	<i>c</i>				
Phlox Point	4/28	218	113.0	105.6	65.6
Red Hill	<i>c</i>				
Still Creek	4/25	80	37.0	42.9	19.0
Still Creek (Alt. #2)	4/25	82	38.1	42.9	--
Switchback	<i>c</i>			20.2	--
Tilly Jane	<i>c</i>				
Ulrich Ranch Junction	<i>c</i>				
Umbrella Falls	5/2	231	120.9	113.0	--
Upper Valley	<i>c</i>				

## WILLAMETTE WATERSHEDS

Cascade Summit	4/28	83	36.9	46.9	25.3
Champion	4/28	74	34.6	57.8	26.3 <sup>h</sup>
Clackamas Lake	c				
Clear Lake	4/25	25	10.8	16.8	4.8 <sup>h</sup>
Clear Lake (Experimental)	4/25	43	18.5	24.0	12.4 <sup>h</sup>
Dead Horse Grade	5/1	40	19.8	26.8	11.9 <sup>h</sup>
Detroit (Town)	4/28	0	0.0	0.0	0.0
Detroit Dam	4/28	0	0.0	0.0	0.0
Golden Curry Creek	4/28	0	0.0	3.6	3.1 <sup>m</sup>
Hogg Pass	4/28	140	67.5	65.8	41.6 <sup>h</sup>
Lake Harriet	5/1	0	0.0	-	0.0 <sup>m</sup>
Laurel Mountain	4/27	6	2.6	-	- -
Layng Creek	4/28	0	0.0	0.0	0.0 <sup>m</sup>
Lookout Point Dam*	4/28	0	0.0	0.0	0.0 <sup>h</sup>
Lost Creek Ranch	5/1	0	0.0	0.0	0.0 <sup>h</sup>
Lund Park	4/28	0	0.0	0.0	0.0 <sup>m</sup>
Marion Forks	4/28	24	8.8	24.0	3.8 <sup>h</sup>
Marys Peak	c				
Marys Peak (Alt.)	c				
McCredie Springs	4/28	0	0.0	0.0	0.0
McKenzie	5/1	144	79.0	68.9	45.2 <sup>h</sup>
McKenzie Bridge	5/1	0	0.0	0.0	0.0 <sup>h</sup>
Mill City	4/28	0	0.0	0.0	0.0
Oakridge	4/28	0	0.0	0.0	0.0
Peavine Ridge	b			32.8	13.9 <sup>h</sup>
Peavine Ridge Pillow	4/30		26.6	28.5	- -
Phlox Point	4/28	218	113.0	105.6	65.6
Railroad Overpass	4/28	0	0.0	0.0	T
Saddle Mtn.	c				
Salt Creek Falls	4/28	40	17.7	28.2	10.2
Santiam Junction	4/28	59	27.5	34.6	14.3
Seine Creek	c				
Still Creek	4/25	80	37.0	42.9	19.0
Still Creek Alternate #2	4/25	82	38.1	42.9	- -
Timothy Lake	5/1	46	19.1	24.3	8.2 <sup>m</sup>
Valsetz Summit	c				
Vida	5/1	0	0.0	0.0	0.0 <sup>h</sup>
Waldo Lake	c				
Weaver Creek	4/28	0	0.0	0.0	0.0 <sup>m</sup>
White Branch Slide	5/1	0	0.0	5.3	1.1 <sup>h</sup>
Whitewater Bridge	4/28	0	0.0	0.0	T
Willamette Pass	4/27	127	60.5	64.6	42.4
Willamette Pass Pillow	b			61.7	- -

# BASIC DATA SUPPLEMENT 1

MAY 1, 1972

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR		PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)
	Last Yr.	Ave.	Last Yr.	Ave.

### ROGUE, UMPQUA WATERSHEDS

Althouse	c			
Althouse #2	c			
Annie Spring	4/26	124	54.4	65.5 45.6
Beaver Dam Creek	4/29	T	T	19.0 --
Big Red Mountain		c		
Billie Creek Divide	4/28	44	20.9	23.6 13.9
Caliban	4/27	87	40.5	48.8 --
Champion	4/28	74	34.6	57.8 26.3 <sup>h</sup>
Cold Springs Camp	5/1	98	48.6	54.2 --
Cold Springs Camp Pillow	5/1		37.6	39.2 --
Deadwood Junction	4/29	0	0.0	7.5 --
Diamond-Crater Summit	4/24	100	47.7	51.6 36.1 <sup>h</sup>
Diamond-Crater Sum. Alt	4/24	96	43.4	41.8 --
Diamond Lake	4/24	58	26.1	27.5 16.8
Fish Lake	4/28	13	6.4	16.1 5.1 <sup>m</sup>
Fourmile Lake	5/3	43	23.4	31.0 21.6
Grayback Peak		c		
Howard Prairie	4/29	0	0.0	5.9 --
Hyatt Prairie	5/1	0	0.0	5.7 --
King Mountain #1	4/28	0	0.0	18.2 --
King Mountain #2	4/28	0	0.0	11.5 --
King Mountain #3	4/28	0	0.0	0.0 --
King Mountain #4	4/28	0	0.0	0.0 --
King Mountain #5	4/28	0	0.0	0.0 --
King Mountain #6	4/28	0	0.0	0.0 --
Little Red Mountain		c		
Mt. Ashland Switchback	4/27	78	33.8	50.7 --
Mule Creek	4/28	T	T	14.2 --
North Umpqua	4/26	16	8.3	14.4 5.3 <sup>h</sup>
Page Mountain		c		
Park Headquarters	4/26	182	89.1	83.3 59.1
Red Butte #1	4/28	18	6.8	31.9 12.6 <sup>h</sup>
Red Butte #2	4/28	0	0.0	16.5 3.7 <sup>h</sup>
Red Butte #3	4/28	0	0.0	3.8 1.2 <sup>h</sup>
Red Butte #4	4/28	0	0.0	0.0 0.0 <sup>m</sup>
Red Butte #5	4/28	0	0.0	0.0 0.0 <sup>m</sup>
Red Butte #6	4/28	0	0.0	0.0 0.0 <sup>m</sup>
Seven Lakes #2		c		
Seven Mile		c		
Silver Burn	4/26	0	0.0	14.0 3.0 <sup>h</sup>
Siskiyou Summit	4/28	0	0.0	0.0 --
Siskiyou Summit Alt. #2	4/28	0	0.0	0.0 --
Ski Bowl Road	4/27	45	22.5	42.2 --
South Fork Canal	5/1	0	0.0	0.0 0.0 <sup>m</sup>
Trap Creek	4/26	8	3.9	12.0 5.4
Whaleback		c		

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR		PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)
	Last Yr.	Ave.	Last Yr.	Ave.

### KLAMATH WATERSHEDS

Annie Spring	4/26	124	54.4	65.5 43.1
Beatty (PP&L)	c			
Billie Creek Divide	4/28	44	20.9	23.6 13.9 <sup>h</sup>
Bly Mountain			DISCONTINUED	
Bly 101 Ranch (PP&L)	c			
Chemult	4/29	0	0.0	0.5 0.8 <sup>h</sup>
Chiloquin (PP&L)	c			
Cold Springs Camp	5/1	98	48.6	54.2 --
Cold Springs Camp Pillow	5/1		37.6	39.2 --
Crazyman Flat	4/25	6	2.4	10.0 --
Crowder Flat (Calif.)	c			
Crystal (PP&L)	c			
Diamond-Crater Summit	4/24	100	47.7	51.6 36.1 <sup>h</sup>
Diamond-Crater Sum. Alt	4/24	96	43.4	41.8 --
Diamond Lake Jct. (97)	4/24	0	0.0	0.0 0.0 <sup>h</sup>
Dog Hollow	c			
Finley Corrals	4/25	24	9.6	18.4 --
Fort Klamath (PP&L)	c			
Fourmile Lake	5/3	43	23.4	31.0 21.6 <sup>h</sup>
Gerber	c			
Harriman (PP&L)	c			
Hyatt Prairie Reservoir	5/1	0	0.0	5.7 --
Kirk (PP&L)	c			
Lake of the Woods	4/28	8	3.3	10.1 6.3 <sup>h</sup>
Park Headquarters	4/26	182	89.1	83.3 59.1
Pelican Guard Station			DISCONTINUED	
Quartz Mountain	4/27	0	0.0	0.0 0.6 <sup>h</sup>
Quartz Mountain (Ext.)	4/27	0	0.0	0.0 --
Seven Lakes #2	c			
Seven Mile	c			
State Line (Calif.)	c			
Strawberry	4/23	T	T	3.2 1.4 <sup>h</sup>
Summer Rim	4/25	32	12.8	22.0 --
Summer Rim Snow Pillow	c			22.3 --
Sun Mountain			DISCONTINUED	
Sycan Flat	c			
Taylor Butte	4/20	0	0.0	0.0 --

### LAKE COUNTY, GOOSE LAKE WATERSHEDS

Adin Mountain (Calif.)	5/1	4	1.7	12.0 3.4
Bald Mountain (Nev.)	c			
Bear Flat Meadow <sup>e</sup>	c			
Camas Creek	4/27	6	2.3	6.3 --
Cedar Pass (Calif.)	5/1	35	17.6	20.4 9.5
Colvin Creek <sup>e</sup>	c			
Cox Flat <sup>e</sup>	c			
Crowder Flat <sup>e</sup> (Calif.)	c			
Dismal Swamp <sup>e</sup> (Calif.)	c			
Finley Corrals <sup>e</sup>	4/25	24	9.6	18.4 --
Hart Mountain <sup>e</sup>	c			
Little Bally Mtn. <sup>e</sup> (Nev.)	c			
Mt. Bidwell (Calif.)	c			
North Star (Calif.)	c			
Patton Meadows <sup>e</sup>	4/25	23	9.2	19.2 --
Quartz Mountain	4/27	0	0.0	0.0 0.6 <sup>h</sup>
Quartz Mountain (Ext.)	4/27	0	0.0	0.0 --
Sherman Valley <sup>e</sup>	c			
Silver Creek	c			
State Line <sup>e</sup> (Calif.)	c			
Strawberry	4/23	T	T	3.2 1.4 <sup>h</sup>
Summer Rim <sup>e</sup>	4/25	32	12.8	22.0 --
Summer Rim Pillow	c			
Sycan Flat <sup>e</sup>	c			
Willow Creek <sup>e</sup>	c			

# BASIC DATA SUPPLEMENT 1

MAY 1, 1972

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
			Last Yr.	Ave.	

### HARNEY BASIN WATERSHEDS

Blue Mountain Springs	4/26	33	16.3	15.8	8.4 <sup>h</sup>
Blue Mtn. Springs Pillow	4/26		8.8	7.5	--
Buck Pasture <sup>e</sup>	c				
Buckskin Lake <sup>e</sup>	c				
Call Meadows <sup>e</sup>	c				
Delintment Lake	c				
Denio Creek <sup>e</sup>	c				
Disaster Peak (Nev.)	c				
Emigrant Butte	c				
Fish Creek	c				
Fish Creek Pillow*	c				
Hart Mountain <sup>e</sup>	c				
Idlewild Camp	4/27	0	0.0	0.0	0.9 <sup>h</sup>
Idlewild Camp Alternate	4/27	0	0.0	--	--
Izee Summit	4/25	T	T	1.5	2.0 <sup>h</sup>
Lake Creek R. S.	4/26	0	0.0	1.0	--
Oregon Canyon <sup>e</sup>					
Rock Spring	4/25	0	0.0	0.0	0.2
Silvies <sup>e</sup>	c				
Silvies Pillow*	c				
Snow Mountain	c				
Snow Mountain Pillow	c				
Starr Ridge	4/25	T	T	1.1	0.6 <sup>h</sup>
Stinking Water	5/1	0	0.0	0.0	--
Trout Creek <sup>e</sup>	c				
"V" Lake <sup>e</sup>	c				

\*Manometer reading.

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
			Last Yr.	Ave.	

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average or 5 or more years in base period.

# BASIC DATA SUPPLEMENT 2

MAY 1, 1972

## SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average <sup>i</sup>
OWYHEE, MALHEUR WATERSHEDS							
Bear Creek (Nev.)	7800	72	16.8	4/27	13.5	10.8 <sup>f</sup>	--
Big Bend (Nev.)	6700	48	16.7	4/25	10.0	16.7	16.5
Blue Mountain Spring	5900	42	16.9	4/26	12.3	12.9	13.2
Crane Prairie	5375	48	18.2	4/26	17.8	17.9	17.7
Folly Farm	4450	30	12.5	c			
Jack Creek, Lower (Nev.)	6800	48	8.6	b		7.5	8.4
Jordan Valley	4390	48	19.3	4/25	16.7	16.7	--
Mud Flat (Ida.)	5500	48	12.8	c			
Rodeo Flat (Nev.)	6800	42	11.0	4/25	7.6	5.7 <sup>f</sup>	--
Taylor Canyon (Nev.)	6200	48	15.1	4/20	13.1	15.1	14.6
Triangle (Ida.)	5150	48	16.6	c			
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS							
Blue Mountain Summit	5100	36	16.8	4/27	16.8	16.6	14.6
Dooley Mountain	5430	36	9.2	4/24	6.6	7.2	6.8
Emigrant Springs	3925	48	22.3	4/27	21.5	22.1	20.9
Ladd Summit	3730	48	18.9	4/28	14.0	13.5	11.8
Moss Springs	5850	36	25.8	4/30	16.3	17.3	--
Tollgate	5070	48	23.6	4/27	16.7	16.9	17.9
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	4/27	13.7	13.8	13.4
Emigrant Springs	3925	48	22.3	4/27	21.5	22.1	20.9
Tollgate	5070	48	23.6	4/27	16.7	16.9	17.9
UPPER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	4/27	13.7	13.8	13.4
Beech Creek	4800	48	21.3	4/24	19.4	18.2	16.3
Blue Mountain Spring	5900	42	16.9	4/26	12.3	12.9	13.2
Blue Mountain Summit	5100	36	16.8	4/27	16.8	16.6	14.6
Derr	5670	24	9.0	4/26	8.2	--	--
Marks Creek	4540	36	14.1	4/28	13.3	13.9	13.1
Snow Mountain	6300	48	16.7	c			
Starr Ridge	5150	36	10.6	4/25	10.6	10.6	10.4
Williams Ranch	4500	42	17.9	4/25	16.6	17.7	16.8
UPPER DESCHUTES, CROOKED WATERSHEDS							
Derr	5670	24	9.0	4/26	8.2	--	--
Marks Creek	4540	36	14.1	4/28	13.3	13.9	13.1
Snow Mountain	6300	48	16.7	c			
HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS							
Cooper Spur	3490	72	26.4	5/2	14.2	14.4	--
KLAMATH WATERSHEDS							
Quartz Mountain	5230	48	15.3	4/27	10.2	10.0	9.4

# BASIC DATA SUPPLEMENT 2

MAY 1, 1972

## SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average <sup>i</sup>
LAKE COUNTY, GOOSE LAKE WATERSHEDS							
Camas Creek	5720	42	14.5	4/27	13.2	13.2	13.1
Quartz Mountain	5230	48	15.3	4/27	10.2	10.0	9.4
HARNEY BASIN WATERSHEDS							
Blue Mountain Spring	5900	42	16.9	4/26	12.3	12.9	13.2
Fish Creek	7900	48	15.0	c			
Folly Farm	4450	30	12.5	c			
Silvies	6900	48	16.4	c			
Snow Mountain	6300	48	16.7	c			
Starr Ridge	5150	36	10.6	4/25	10.6	10.6	10.4
Willow-Bald	5000	24	6.6	4/27	6.6	6.6	--

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

# BASIC DATA SUPPLEMENT 3

MAY 1, 1972

## PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION		PAST RECORD	
		Date of Reading	Precipitation	Last Year	Average <sup>i</sup>
Aneroid Lake #2 (Wallowa County)	7400	3/31 to 4/26	3.00		
Arbuckle Mountain (Morrow County)	5400	3/30 to 4/28	2.75	2.47	
Camas Creek (Lake County)	5825	3/29 to 4/27	2.60	2.95	
Derr (Wheeler County)	5800	1/27 to 4/26	9.05		
Eilertson Meadow (Baker County)	5400	3/28 to 4/26	2.81	2.00	
Lucky Strike (Umatilla County)	5050	3/29 to 4/27	3.90		
Quartz Mtn. Summit (Lake County)	5300	3/30 to 4/27	2.44	3.18	
Strawberry (Lake County)	5760	4/3 to 4/23	1.50	2.65	
Taylor Green (Union County)	5800	3/27 to 4/30	0.90	2.30	
Tipton (Baker County)	5100	3/30 to 4/27	2.81		







## The Following Organizations Cooperate in the Oregon Snow Survey Work

### STATE

Idaho Cooperative Snow Surveys  
Nevada Cooperative Snow Surveys  
Oregon State University  
Oregon State Engineer and Corps of State Watermasters  
Oregon State Highway Engineers  
Soil and Water Conservation Districts of Oregon

### COUNTY

Douglas County Water Resources Survey

### FEDERAL

Department of Agriculture  
Cooperative Extension Service  
Forest Service  
Soil Conservation Service  
Department of Commerce  
NOAA, National Weather Service  
Department of the Interior  
Bonneville Power Administration  
Bureau of Land Management  
Bureau of Reclamation  
Fish and Wildlife Service  
Geological Survey  
National Park Service  
Department of National Defense  
Corps of Army Engineers

### PUBLIC UTILITIES

Pacific Power and Light Company  
Portland General Electric Company  
California-Pacific Utilities Company

### MUNICIPALITIES

City of Baker  
City of La Grande  
City of The Dalles  
City of Walla Walla

### IRRIGATION DISTRICTS

Arnold Irrigation District  
Associated Ditch Companies  
Burnt River Irrigation District  
Central Oregon Irrigation District  
East Fork Irrigation District  
Grants Pass Irrigation District  
Hood River Irrigation District  
Jordan Valley Irrigation District  
Juniper Flat Irrigation District  
Lakeview Water Users, Incorporated  
Medford Irrigation District  
Middle Fork Irrigation District  
North Board of Control - Owyhee Project  
North Unit Irrigation District  
Ochoco Irrigation District  
Rogue River Valley Irrigation District  
South Board of Control - Owyhee Project  
Squaw Creek Irrigation District  
Talent Irrigation District  
Tumalo Project  
Vale-Oregon Irrigation District  
Warmsprings Irrigation District

### PRIVATE ORGANIZATIONS

The Crag Rats, Hood River, Oregon

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